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conc.

5. (Amended) A data processor according to [any one of] claim[s] 1 [to 4], wherein said second address outputted from said address output means is inputted to said address output means via a cache memory and a bus.

6. (Amended) A data processor according to [any one of] claim[s] 1 [to 5], wherein the control information except for an address is not included in said first address.

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Sub
A1 10. (Amended) A data processing system according to claim[s] 8 [or 9], wherein said address translation means outputs said second address; and
said second address is inputted to said address output means via a cache memory and a bus.

11. (Amended) A data processing system according to [any one of] claim[s] 8 [to 10], wherein said second external device has a memory or a modem, and said memory or said modem are controlled by said PCMCIA interface controlled by said second external device control information.

12. (Amended) A data processing system according to [any one of] claim[s] 8 [to 11], wherein said CPU, said address translation means, said address output means, and a

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PCMCIA interface portion in said second external device are formed on the same semiconductor substrate.

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17. (Amended) A data processor according to claim[s] 15 [or 16], wherein said CPU and a PCMCIA interface in said external device are formed on the same semiconductor substrate.

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--18 A data processor comprising:
a CPU for outputting a first address;
address translation means for inputting said first address, translating said first address to a second address, and outputting said second address; and
external bus control means for inputting said second address and outputting said second address to an external device,
wherein said address translation means has an address translation buffer, a register, and selection means,
said address translation buffer stores a first external device control information for controlling said external device in association with either said first address or said second address,
said register has a second external device control information, and
said selection means selects either said first

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cont.

external device control information or said second external device control information and outputs a selected information to said external bus control means.--

--19. A data processor according to claim 18, wherein said external device is a device having a PCMCIA interface, and

each of said first external device control information and said second external device control information is an information which specifies at least one of an access timing, a memory attribute, or a bus width of said external device.--

--20. A data processor according to claim 18, wherein said first selection means outputs said second external device control information stored in said register to said external bus control means when said address translation buffer is not used.--

--21. A data processor according to claim 18, wherein said address translation means further comprises an address decoder for receiving said first address and said first selection means selects either said first external device control information or said second external device control information based on a result of

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decoding of said address decoder and outputs a selected information to said external bus control means.--

--22. A data processor comprising:

a CPU for outputting a virtual address;
first address translation means and second address translation means for inputting said virtual address, translating said virtual address to a physical address, and outputting said physical address; and

external bus control means for inputting said physical address and outputting to an external device, wherein said first and said second address translation means stores an external device control information for controlling said external device in association with either said first address or said second address, and

there is provided selection means for selecting either said external device control information outputted from said first address translation means or said external device control information outputted from said second address translation means and outputting to said external bus control means.--

--23. A data processor according to claim 22, wherein said first address translation means has an address

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translation means has an address translation buffer for
data.--

--24. A data processor according to claim 22, wherein
said first address translation means has an address
translation buffer for instruction and said second address
translation means has an address translation buffer.--

--25. A data processor according to claim 22, wherein
said external device is a device having a PCMCIA interface
and

 said external device control information is an
information which specifies at least one of an access
timing, a memory attribute, or a bus width of said external
device.--

--26. A data processor comprising:

 a CPU for outputting a first address;
 address translation means for inputting said first
address, translating said first address to a second
address, and outputting said second address; and
 address output means for inputting said second
address and outputting said second address to an external
device,

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wherein said address translation means stores an external device control information for controlling said external device in association with at least either one of said first address or said second address and outputs said external device control information to said address output means.--

--27. A data processor according to claim 26, wherein said external device is a device having a PCMCIA interface, and said external device control information is an information which specifies at least one of an access timing, a memory attribute, or a bus width of said external device.--

--28. A data processor according to claim 27, wherein said address output means comprises a timing controller and a bus width and memory attribute decider.--

--29. A data processor according to claims 27, wherein said CPU, said address translation means, said address output means, and a PCMCIA interface in said external device are formed on the same semiconductor substrate.--

--30. A data processor according to claim 26, wherein said second address outputted from said address output

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means is inputted to said address output means via a cache memory and a bus.--

--31. A data processor according to claim 26, wherein the control information except for an address is not included in said first address.--

--32. A data processor comprising:

a CPU for outputting a first address;
address translation means for inputting said first address, translating said first address to a second address, and outputting said second address; and
external bus control means for inputting said second address and outputting said second address to an external device having a PCMCIA interface,

wherein said address translation means stores an external device control information for controlling said external device in association with at least either one of said first address or said second address, and when said first address is inputted to said address translation means, said address translation means outputs said external device control information to said external bus control means based on said first address or said second address translated based on said first address.--

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--33. A data processor according to claim 32, wherein
said external device control information is an information
which specifies at least one of an access timing, a memory
attribute, and a bus width of said external device.--

--34. A data processing system comprising:
a first address for being outputted by a CPU;
address translation means for translating said
first address to a second address; and
address output means for outputting an address to
a first external device and a second external device,
wherein when said first address is outputted to
said first external device via said address output means,
said address translation means outputs a first external
device control information stored in association with said
first address to said address output means, and
when said second address is outputted to said
second external device via said address output means, said
address translation means outputs a second external device
control information stored in association with either said
first address or said second address to said address output
means.--

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cont. --35. A data processing system according to claim 34, wherein said second external device is a device having a PCMCIA interface.--

--36. A data processing system according to claim 35, wherein said second external device control information is an information which specifies at least one of an access timing, a memory attribute, and a bus width of said device.--

--37. A data processing system according to claim 34, wherein said address translation means outputs said second address and

 said second address is inputted to said address output means via a cache memory and a bus.--

--38. A data processing system according to claim 34, wherein said second external device has a memory or a modem, and said memory or said modem are controlled by said PCMCIA interface controlled by said second external device control information.--

--39. A data processing system according to claim 34, wherein said CPU, said address translation means, said address output means, and a PCMCIA interface portion in